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NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC-KRIDL-W.No.02-2016-17 Date: 07.05.2016

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.
AGENCY	:	**Technical Manager(West),** KRIDL, BBMP Bangalore.
NAME OF THE WORK	:	Construction of CC road at 30th cross western side kondappa layout jangamaiah house in ward no. 2 of yelahanka Sub Division.
REFERENCE	:	BBMP/EE(YNK.D)/W.O/59/2016-17 Dated:30.04.2016
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.00 %	-

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Job No.: CECTC-KRIDL-W.No.02-2016-17

Date : 07.05.2016

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.

Agency : **Technical Manager(West),** KRIDL, BBMP Bangalore.

Name of Work : Construction of CC road at 30th cross western side kondappa layout jangamaiah house in ward no. 2 of yelahanka Sub Division.

Reference : BBMP/EE(YNK.D)/W.O/59/2016-17 Dated:30.04.2016

Date of Testing : 07.05.2016

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	58	5.80	5.80	94.2	90-100
2.36	126	12.60	18.40	81.6	75-100
1.18	149	14.90	33.30	66.7	55-90
600 Micron	274	27.40	60.70	39.3	35-59
300 Micron	268	26.80	87.50	12.5	8-30
150 Micron	76	7.60	95.10	4.9	0-10

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Job No.: CECTC-KRIDL-W.No.02-2016-17 Date : 07.05.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.

Agency : **Technical Manager(West),** KRIDL, BBMP Bangalore.

Name of Work : Construction of CC road at 30th cross western side kondappa layout jangamaiah house in ward no. 2 of yelahanka Sub Division.

Reference : BBMP/EE(YNK.D)/W.O/59/2016-17 Dated:30.04.2016

Date of Testing : 07.05.2016

Material : 40mm Aggregates

Total wt. of aggregates in gms = 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	316	2.11	2.11	97.89	95-100
20	8274	55.16	57.27	42.73	30-70
10	3316	22.11	79.37	20.63	10-35
4.75	2465	16.43	95.81	4.19	0-5

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Job No.: CECTC-KRIDL-W.No.02-2016-17

Date : 07.05.2016

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.

Agency : **Technical Manager(West),** KRIDL, BBMP Bangalore.

Name of Work : Construction of CC road at 30th cross western side kondappa layout jangamaiah house in ward no. 2 of yelahanka Sub Division.

Reference : BBMP/EE(YNK.D)/W.O/59/2016-17 Dated.30.04.2016

Date of Testing : 07.05.2016

Material : 20mm Aggregates

Total wt. of aggregates in gms = 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	334	6.7	6.7	93.3	95-100
10	2275	45.5	52.2	47.8	25-55
4.75	2134	42.7	94.9	5.1	0-10

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Job No.: CECTC-KRIDL-BBMP-2016-17 Date: 05.05.2016

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-64.
Agency	:	**Technical Manager(West),** KRIDL, BBMP Bangalore.
Name of Work	:	Construction of CC road at 30th cross western side kondappa layout jangamaiah house in ward no. 2 of yelahanka Sub Division.
Reference	:	BBMP/EE(YNK.D)/W.O/59/2016-17 Dated:30.04.2016
Sample Identification	:	8mm, 10mm, 12mm, 16mm TMT Bars
Technical Reference	:	IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)
Date of test	:	05.05.2016

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.395	532	560	15
2	Fe 500	10	0.617	551	579	16
3	Fe 500	12	0.888	575	594	17
4	Fe 500	16	1.570	593	614	18

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Job No.: CECTC-KRIDL-W.No.02-2016-17 Date: 03.06.2016

TEST REPORT ON CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore-
Agency : **Technical Manager(West),** KRIDL, BBMP Bangalore.
Name of the work : Construction of CC road at 30th cross western side kondappa layout jangamaiah house in ward no. 2 of yelahanka Sub Division.
Reference : BBMP/EE(YNK.D)/W.O/59/2016-17 Dated:30.04.2016
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2016	03.06.2016	8.135	489.4	21.75
2	06.05.2016	03.06.2016	8.149	496.4	22.06
3	06.05.2016	03.06.2016	8.156	506.4	22.51

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Sample ID : BBMP/EE(YNK.D)/W.O/59/2016-17 Dated:30.04.2016
Sample ID : Cement Concrete
Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2016	03.06.2016	8.139	500.4	22.24
2	06.05.2016	03.06.2016	8.146	506.2	22.50
3	06.05.2016	03.06.2016	8.152	484.3	21.52

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Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2016	03.06.2016	8.137	526.4	23.40
2	06.05.2016	03.06.2016	8.150	520.8	23.15
3	06.05.2016	03.06.2016	8.167	524.7	23.32

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Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2016	03.06.2016	8.187	508.6	22.60
2	06.05.2016	03.06.2016	8.176	513.4	22.82
3	06.05.2016	03.06.2016	8.166	521.4	23.17

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Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2016	03.06.2016	8.189	492.4	21.88
2	06.05.2016	03.06.2016	8.174	510.4	22.68
3	06.05.2016	03.06.2016	8.151	516.7	22.96

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Size of cubes : 150mmx150mmx150mm
Cross Sectional Area : 22500 mm^2
Technical Reference : IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete : M_{20}
Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.05.2016	03.06.2016	8.147	488.1	21.69
2	06.05.2016	03.06.2016	8.158	491.2	21.83
3	06.05.2016	03.06.2016	8.169	510.4	22.68

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